BTEL-GT

AVVISATORE TELEFONICO GSM (I)

GSM TELEPHONE DIALLER (GB)

AVISADOR TELEFÓNICO GSM (E)

AVERTISSEUR TÉLÉPHONIQUE GSM (F)

Manuale di installazione ed uso
Installation and User Manual
Manual de instalación y usuario
Manuel d'installation et d'utilisation

CE 0470

BENTEL SECURITY
A Tyco International Company

ISO 9001 9105.BNT1 · ISO 9001 IT-52587 · ISO 14001 9191.BNT2 · ISO 14001 IT-52588 · OHSAS 18001 9192.BSEC · OHSAS 18001 IT - 60983

Tab.1

N.	① IDENTIFICAZIONE DELLE PARTI	GB PARTS DESCRIPTION	E DESCRIPCION DE LOS COMPONENTES	F IDENTIFICATIONS DES PIECES
1	Viti (4) per il fissaggio del coperchio al fondo	Screws (4)to fix the cover to the backplate	Tornillos (4) para fijar la tapa del fondo	Vis (4) pour la fixation du couvercle au fond
2	Coperchio	Cover	Tapa	Couvercle
3	Griglia per microfono	Microphone grill	Parrilla para micrófono	Grille pour microphone
4	LED di controllo	Status LEDs	LED de control	LED de contrôle
5	Fondo	Backplate	Fondo	Fond
6	Fori (4) per il fissaggio del fondo (Ø 5 mm)	Holes (4) for backplate mounting (Ø 5 mm)	Orificios (4) para fijar fondo (Ø 5 mm)	Trous (4) pour la fixation du fond (Ø 5 mm)
7	Altoparlante per la riproduzione dei messaggi	Speaker for message playback	Altavoz para la reproducción de mensajes	Haut-parleur pour la reproduction des messages
8	Deviatore antistrappo (opzionale)	Wall tamper switch (optional)	Desviador Antiarrancamiento (opcional)	Déviateur Anti-arrachement (optionnel)
9	Foro per vite antistrappo	Hole for wall tamper screw	Orificios para tornillo antiarranque	Trou pour vis anti-déchirement
10	Apertura, sul fondo, per il passaggio dei cavi	Cable feed opening on the base	Abertura en la base para el paso de los cables	Ouverture, sur le fond, pour le passage des câbles
11	Cavetti per il collegamento della batteria tampone	Battery connectors	Conectores para la conexión del acumulador	Câbleaux pour le branchement de la batterie de secours
12	Alloggiamento per una batteria tampone da 12 V / 1,2 Ah (non fornita)	Compartment for a 12V / 1.2 Ah battery (not provided)	Asiento para un acumulador de 12 V / 1,2 Ah (no en dotación)	Logement pour une batterie de secours de 12 V / 1,2 Ah (non fournie)
13	Tastiera alfanumerica	Alphanumeric keypad	Teclado Alfanumérico	Clavier alphanumérique
14	LED di controllo	Status LEDs	LED de control	LED de contrôle
15	Microfono per la registrazione dei messaggi	Microphone for recording messages	Micrófono para grabar mensajes	Microphone pour l'enregistrement des messages
16	Deviatore antisabotaggio	Tamper switch	Desviador antisabotaje	Déviateur antisabotage
17	Connettore cavo per l'aggiornamento firmware	Cable connector for the firmware update	Conector cable para la actualización del firmware	Connecteur câble pour la mise à jour firmware
18	Connessione per altoparlante	Speaker connection	Conexión para altavoz	Connexion pour le haut-parleur
19	Ponticello per l'impostazione della **polarità di attivazione:**	Jumper for setting **activation mode**:	Puente para programación de la **polaridad de activación**:	Cavalier pour le réglage de la **polarité d'activation**:
	UP ⊙ ▮ DOWN Attivazione con **segnali positivi** (Positivo a dare o positivo a mancare - DEFAULT) Activated by **positive signal** (positive command or positive drop - DEFAULT) Activación con **señales positivas** (Positivos presente y positivo ausente - DEFAULT) Activation avec **signaux positifs** (présence ou absence - DEFAULT)			
	UP ▮ ⊙ DOWN Attivazione con **segnali negativi** (Negativo a dare o negativo a mancare) Activated by **negative signal** (negative command or negative drop) Activación con **señales negativas** (Negativo presente y negativo ausente) Activation avec **signaux négatifs** (présence ou absence)			
20	Connettore per il collegamento della batteria tampone	Battery connector	Conector para la conexión de la batería	Connecteur pour le branchement de la batterie de secours
21	Morsettiere per i collegamenti	Terminal Blocks	Regleta de terminales para las conexiones	Bornier pour les branchements
22	Porta SIM CARD	SIM holder	Porta-SIM	Port SIM

Tab.2

CARATTERISTICHE TECNICHE	TECHNICAL FEATURES	ESPECIFICACIONES TECNICAS	CARACTÉRISTIQUES TECHNIQUES		
Tensione di alimentazione	Input Voltage	Tensión de alimentación	Tension d'alimentation	**13.8 V⎓ ±2%**	
Corrente a riposo: Comunicatore Uscite (se collegate)	Standby current: Communicator Outputs (if connected)	Corriente en reposo: Comunicador Salidas (si conectadas)	Courant au repos: Transmetteur Sorties (si reliées)	**500 mA** **100 mA** **400 mA**	**massimo** **máximo** **maximum**
Corrente in allarme (trasmissione): Comunicatore Uscite (se collegate)	Alarm (Transmitting) current: Communicator Outputs (if connected)	Corriente en alarma (transmisión): Comunicador Salidas (si conectadas)	Courant en alarme (transmission): Transmetteur Sorties (si reliées)	**600 mA** **200 mA** **400 mA**	
Uscite OC	Open collector outputs	Salidas OC	Sorties OC	**4 open collector, da 100 mA**	
Caratteristiche ambientali	Environment	Características ambientales	Caractéristiques environnementales	**Solo per applicazioni interne** **Indoor Application only** **Sólo para aplicaciones internas** **Uniquement pour utilisation en intérieur**	
Temperatura di funzionamento	Operating Temperature	Temperatura de funcionamiento	Température de fonctionnement	**5 °C ÷ 40 °C** **5 °C to 40 °C** **(41 °F to 104 °F)**	
Umidità relativa	Humidity	Humedad relativa	Humidité relative	**93% (senza condensa)** **93%RH Non Condensing** **93% (sin condensación)** **93% (sans vapeur)**	
Dimensioni (L x A x P)	Dimensions (W x H x D)	Dimensiones (An x Al x P)	Dimensions (H x E x L)	**132x220x62 mm**	
Peso (senza batteria)	Weight (without battery)	Peso (sin batería)	Poids (sans batterie)	**449 g**	

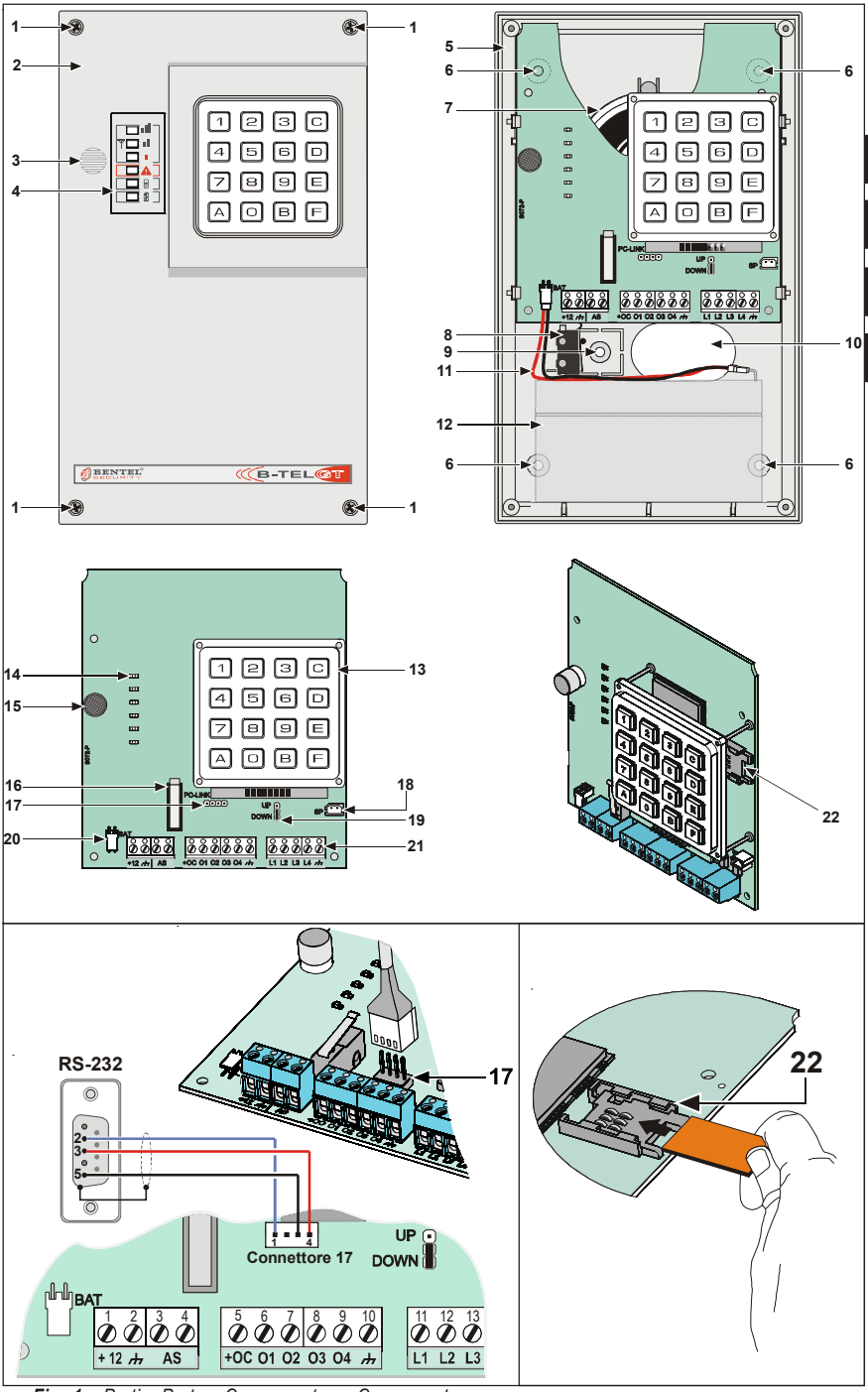

Fig. 1 - Parti - Parts - Componentes - Composants

Tab. 3 - Codici Operatori, Operator Codes, Códigos Operadores, Codes Opérateurs.

Tabella codici operatori Table of Operator Codes Tabla Códigos Operadores Tableau des codes opérateurs		
Nazione Country País Pays	Codice Code Código Code	Operatore Operator Operador Opérateur
Italia Italy Italia Italie	**22201**	**TIM**
	22210	**Vodafone**
	22288	**Wind**
Spagna Spain España Espagne	**21401**	**Vodafone**
	21403	**Orange**
	21409	
	21407	**Movistar**
Belgio Belgium Bélgica Belgique	**20601**	**Proximus**
	20610	**Mobistar**
	20620	**Base**
Francia France Francia France	**20800**	**Orange**
	20801	
	20802	
	20810	**SFR**
	20820	**Bouygues**
	20821	
	20888	
Portogallo Portugal Portugal Portugal	**26801**	**Vodafone**
	26803	**Optimus**
	26806	**TMN**

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Hereby, Bentel Security declares that the
BTEL-GT
is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The complete R&TTE Declaration of Conformity for each Device can be found at ***www.bentelsecurity.com/dc.html.***

Installation of these systems must be carried out strictly in accordance with the instructions described in this manual, and in compliance with the local laws and bylaws in force. The above mentioned ***BTEL-GT*** *has been designed and made to the highest standards of quality and performance. The manufacturer recommends that the installed system should be completely tested at least once a month.*

BENTEL SECURITY srl shall not be responsible for damage arising from improper installation or maintenance by unauthorized personnel.

BENTEL SECURITY srl reserves the right to change the technical specifications of this product without prior notice.

GB **Recycling information**

BENTEL SECURITY recommends that customers dispose of their used equipments (panels, detectors, sirens, and other devices) in an environmentally sound manner. Potential methods include reuse of parts or whole products and recycling of products, components, and/or materials.
For specific information see: www.bentelsecurity.com/index.php?o=environmental

Waste Electrical and Electronic Equipment (WEEE) Directive

In the European Union, this label indicates that this product should NOT be disposed of with household waste.
It should be deposited at an appropriate facility to enable recovery and recycling.
For specific information see: www.bentelsecurity.com/index.php?o=environmental

INTRODUCTION

The BTEL-GT is a telephone dialler that can call a series of preset phone numbers, to which it can send both voice alarms and text messages. The BTEL-GT is available in an ABS plastic container which is placed inside the alarm system it is connected to. The plastic box is protected against tampering (unauthorized openings) and tearing (optional). The BTEL-GT does not require any software to set its various options and data, but it can be programmed completely using an alphanumeric keyboard and a voice menu that can be heard through the speaker on the baseplate.The BTEL-GT is compatible with all alarm systems and Bentel systems belonging to the NORMA8/NORMA4, KYO, and ABSOLUTA series. The BTEL-GT's performance depends particularly on GSM network coverage; therefore, it should not be installed before testing several positions to get the best location for reception (at least one green LED should be on). For optimal installation, search for the operator with the strongest signal. The BTEL-GT is equipped with:

GB

– 4 programmable alarm inputs. When the input is activated, the dialler can send voice and text messages to up to 9 numbers.

– 4 OC (Open Collector) type outputs, 3 of which can be programmed and managed either on-site with a keyboard or remotely via DTMF and SMS, while 1 output is reserved for signaling malfunctions (problems with the GSM network or low battery).

The BTEL-GT can store 9 telephone numbers of up to 16 digits each. Voice messages can be recorded directly on the dialler using an internal microphone and played back through a speaker on the baseplate (the microphone and the speaker are also used for the live function).

This manual provides programming and operation of the telephone dialler.

This Device is fixed and shall be installed by Service Persons only (service person is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed in performing a task and of measures to minimize the risks to that person or other persons). It shall be installed and used within an environment that provides the pollution degree max 2, over voltages category II, in non-hazardous, indoor locations only. This manual shall be used with the Installation Manual of the alarm control panel. All instructions specified within that manual must be observed.

General Features

- ❒ Voice menu in 4 languages for programming and use.
- ❒ 4 programmable input lines.
- ❒ Up to 3 voice messages can be associated with each event: 8 messages lasting up to 8 seconds each.
- ❒ Checking on the remaining credit for pre-paid SIM-cards.
- ❒ Open microphone function.
- ❒ Speakerphone function.
- ❒ Sending of voice and text messages to activate input.
- ❒ Alarm call activation can be programmed with commands and programmable polarity options (positive or negative).
- ❒ 9 telephone numbers (up to 16 digits each) can be programmed.
- ❒ Protection from accidental inversion of battery polarity.
- ❒ Battery and network coverage monitoring.
- ❒ Programmable by voice and with a keyboard.
- ❒ 1 OC (Open Collector) output reserved for announcing malfunctions.
- ❒ 3 programmable OC (Open Collector) outputs.
- ❒ 6 signal LED's.
- ❒ GSM Quad-Band.
- ❒ Internal antenna.
- ❒ Remote output activation through caller recognition and/or by sending a text message.
- ❒ Memory of alarm inputs for handling multiple sends.
- ❒ Priority for input n.1.
- ❒ A fourth input can be programmed to block call cycles.
- ❒ Remote call cycle blocking.
- ❒ The number of times to attempt a call can be programmed.
- ❒ The number of repetitions for an alarm message can be programmed.
- ❒ Searches for the operator with the best GSM coverage.
- ❒ Time and date programming.
- ❒ Periodic voice message.
- ❒ Periodic text message.
- ❒ Low battery indicated by text message.
- ❒ Microphone for recording messages and the live function.
- ❒ Speaker for listening to recorded messages and speakerphone function.
- ❒ Superkey management.
- ❒ Digital recording and playing of messages.
- ❒ Protection from attempts at sabotage (protection against opening and tearing).
- ❒ Housing for a 12 V - 1.2 Ah battery (not supplied).

- ***Do not route any wiring over circuit boards.***
- ***This Device shall be installed by qualified SERVICE PERSONS only, in the shelter of a safe and dry site, away from radio-transmitting equipment.***
- ***Test the GSM Network reception before mounting this Device in the proposed placement.***

Mounting

This paragraph describes how the BTEL-GT is installed.

- ***Numbers in bold type between square brackets refer to the parts in Fig. 1, unless indicated otherwise.***

1. Remove the cover by unscrewing the four screws [**1**].
2. Mark the position of the holes [**6**] required to fix the metal base [**5**] to the wall.
3. Drill holes in the wall as marked.

   ⚠ ***Check for cable conduits and water pipes before drilling.***

4. Pass the connection cables through the opening on the base [**10**].
5. Fix the metal base to the wall using wall anchors (not supplied).
6. If necessary, assemble the Wall Tamper Switch (optional) [**8**] as shown in Figure 1.

   The switch lever must be directed as illustrated in Figure 1, otherwise the device will not work correctly.

7. Arrange the connections to the terminal box [**21**] as described in the section "***Connecting the device***".
8. Connect the connector [**20**] to the battery with the wire [**11**].

   ⚠ ***Use only batteries sealed.***

- ***Connect the terminals of the tamper switch [16] (see the section "Connecting the device") to the tamper line or to an appropriate area of the alarm system. Read the instructions for the alarm system for further information.***
- ***After the BTEL-GT is installed, it may be necessary to remove the front panel for maintenance or repair purposes. Bear in mind that if the tamper switch [16] is connected to the corresponding line of an anti-intrusion system, the latter can cause an undesired alarm. Therefore, before removing the front panel of the BTEL-GT, make sure that the panel's alarm group is disabled (refer to the control panel's instructions for information on how to disable the alarm group).***

9. Following the arrow, insert the SIM-CARD face down in the SIM holder [**22**] (see Figure 1).

   The PIN for the SIM CARD must be disabled before inserting it in the SIM holder.

10. When you turn it on, check whether all the green LED's are blinking; in this case, the BTEL-GT is initializing.
11. Checking Signal Strenght :
    – make sure that at least one of the green LEDs remains lit; all green LEDs lit indicates optimal coverage;
    – if the green LEDs are not illuminated, the signal strength is TOO WEAK; change the position of the antenna until you find a position which offers acceptable signal strength, at least one LED illuminated.
12. Close the BTEL-GT: place the cover [**2**] on the baseplate [**5**]; fix the cover by tightening the screws [**1**]. Close the control panel cover.

⚠ ***Before inserting or removing the SIM card, please ensure the unit is powered down.***

CONNECTING THE DEVICE

This section describes the various terminals. Figure 3 shows a typical wiring diagram.

N.	Terminals	Description
1	+12	**Power supplied by the control unit or by the external power supply ADP1512 (optional), 13,8 Vcc± 2%, make sure that this is protected and operating at a limited current; Limited Power Source (LPS) in conformity with EN 60950-1:2006 standard.** ⚠ ***To connect the supply use wires with a maximum 2 mt length and 0.75mm² cross-section. For shorter wires use suitable cross-sections.***
2	⏚	**Negative:** Power Supply.
3 4	AS	**Tamper switch:** These terminals are connected serially to the tamper switch [**16**] and are closed when the cover [**2**] of the dialler is completely closed; they open when the cover [**2**] is removed.
5	+OC	**Common terminal for Open-Collector Outputs:** Common power-supply terminal (12 VDC / 100 mA) for all Outputs **O1**, **O2**, **O3** and **O4**.
6 7 8	O1 O2 O3	**Open-Collector Programmable Output Ports**: these output ports can be activated from a voice menu (local or remote), or else either by sending a command in a text message or through caller ID (Remote Activation). The maximum current that can be drawn from each OC output port is 100 mA.
9	O4	**Open-Collector output:** This output is activated by GSM network malfunctions, low battery power, and problems with the SIM card.
10	⏚	**Negative:** Power Supply.
11 12 13 14	L1 L2 L3 L4	**Input lines**: When these inputs receive alarm signals, they can activate the SMS and telephone dialer function.
15	⏚	**Negative:** Power Supply.

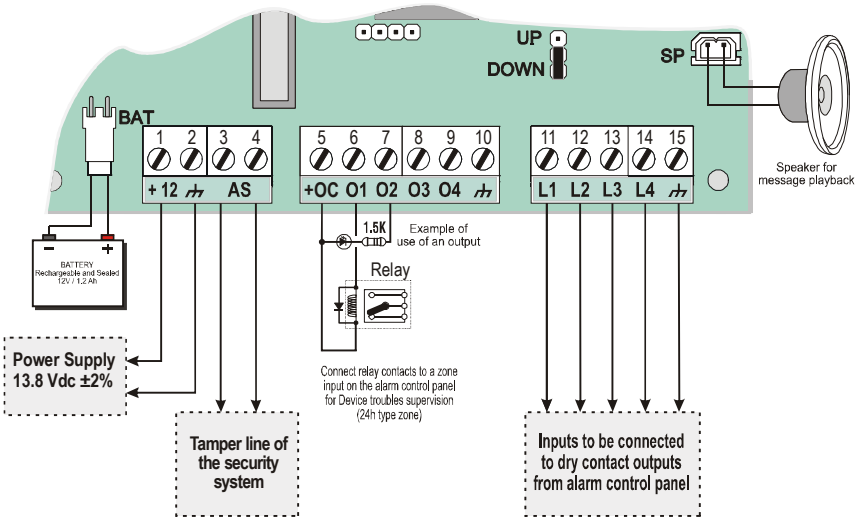
⚠ ***The Open Collector current may not exceed 100 mA. If necessary, commutate greater loads using switches or our switch boards BRM04/12 (12V dc) and BRM04/24 (24V dc).***

Activation Polarity

The Dialler contains 4 alarm inputs; each input can be activated by signals with positive or negative polarity; in the factory, the dialler is programmed to be activated by signals with positive polarity. To set the **activating polarity**, see Table 4.

Table 4 - POLARITY AND ACTIVATION

Activation command for input channels	Settings	
	Jumper [19]	Programming Input Polarity
Negative drop (fail-safe)	UP	1 (positive)
Negative command	DOWN	0 (negative)
Positive drop (fail-safe)	UP	0 (negative)
Positive command	DOWN	1 (positive)


BTEL-GT
UP
DOWN
SP
BAT
1 2 3 4
+ 12 AS
5 6 7 8 9 10
+OC O1 O2 O3 O4
11 12 13 14 15
L1 L2 L3 L4
Speaker for message playback
1.5K
Example of use of an output
Relay
BATTERY
Rechargeable and Sealed
12V / 1.2 Ah
Power Supply
13.8 Vdc ±2%
Connect relay contacts to a zone input on the alarm control panel for Device troubles supervision (24h type zone)
Tamper line of the security system
Inputs to be connected to dry contact outputs from alarm control panel

WARNING
Incorrect connections may result in FTC fault or improper operation. Inspect wiring and ensure connections are correct before applying power. DO NOT route any wiring over circuit boards; maintain at least 1" (24.5 mm) separation.
A minimum 1/4" (6.4 mm) separation must be maintained at all points between Power Limited wiring and all other Non-Power Limited wiring.

***Fig. 3** - Example of connection to the BTEL-GT dialler*

STATUS LEDS

On the screen there are 6 LED's; three green LED's, one red LED, one yellow LED, and one red LED, which show connection, malfunctions, transmission, the status of the BTEL-GT, and programming mode.

During inizialization, the LED's will flash.

GREEN — The three green LED's show the strength of GSM reception and status (table 5):

The **first LED**, if **ON**, shows optimal GSM reception: therefore, it turns on only when the second and third LED's are also lit.

The **second LED**. When this LED is ON, the reception is good: this LED turns on only when the third green LED is lit;

The **third LED**, if turned **OFF**, indicates that the GSM network is NOT available. If this LED is lit, the network signal is low but sufficient for voice calls;

RED — This LED is normally OFF. If it lights up, this indicates a malfunction. The BTEL-GT checks for tthe presence of some malfunctions (for example, no GSM network or low battery power); the red LED will remain lit until the malfunction is repaired.

YELLOW - If **ON** it means a call (either incoming or outgoing) is taking place on the GSM network.

RED - If **solid** lit it indicates that factory data are being loaded or programming is under way.

BTEL-GT dialler status indication		
LED flashes		Meaning
Continuously (500ms ON/OFF)	**Intermittently** (flashes ON/OFF twice in 500ms, then OFF for 2 seconds)	
—		Problem with the SIM card
	—	The dialer is initializing; flash until a GSM signal is received

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Fig. 5 *- Indications of the dialers status from the Green LED's.*

OPERATING PRINCIPLES

Once the language is selected, the voice menu for programming will become active in the language chosen. The interface language can also be changed, either from a menu in the corresponding section or by using a keypad sequence (see section "***Advanced Management->Language change***"). This also allows the device to be programmed in one language and then operated in another one.
When the device is turned on, no voice or text messages are sent until the radio module is completely initialized. Any input activation will be ignored. If the dialler is not capable of performing the command associated with the activation of an input, the command will be memorized and executed when the device returns to being ready, which allows for the handling of multiple messages due to the simultaneous activation of multiple inputs. For optimal installation of the device, search for the operator with the best coverage.

Priority management

The BTEL-GT can send voice and text mesages. Text messages have a higher priority compared to voice messages. If at the end of a voice message, there are text messages to be sent with the activation of another input, the latter are sent before any other voice mesages.

IMPORTANT - Input no. 1 (L1) takes priority over the other inputs: if input no. 1 (L1) is activated, the call cycles related to it are carried out, even if at that moment the dialler was going through cycles linked to a different input.

For example, if an alarm takes place on input 2 and a few seconds later, an alarm occurs on input 1, the BTEL-GT stops sending the voice message originating from input 2 and then sends the voice messages connected with input 1. Once it has finished sending the voice messages for input 1, the BTEL-GT starts sending the voice messages in the queue originating from input 2 once again.

When multiple inputs are activated, the alarms are placed in a queue and they are cancelled only at the end of all the programmed actions for every input.

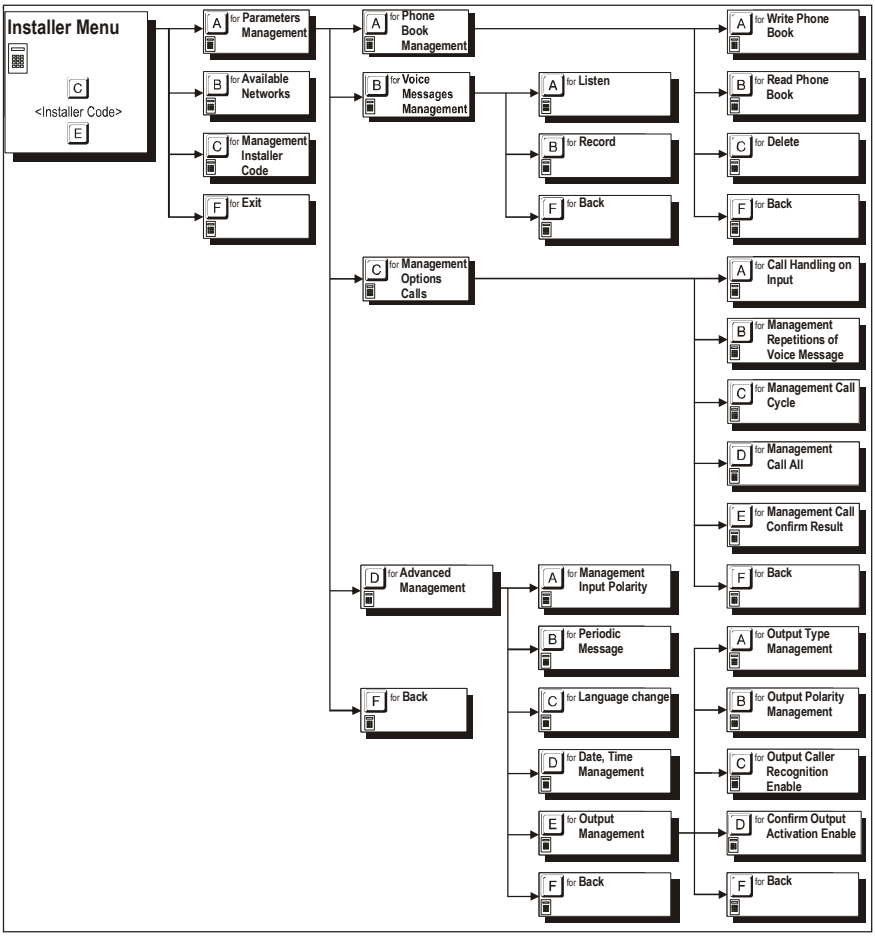
Table of Priority Handling		
Event Priority	**Event taking place**	**Action to activate input channel 1 (L1)**
1 (HIGH)	Sending SMS message	When finished sending the message, the actions concerning input channel 1 will be carried out.
2	Sending voice message	The call is completed, the events are placed in a queue and they will be ransmitted at the end of input channel 1's alarm cycle.

To program call cycles, see the section "***Parameters Management->Management options calls***".

PROGRAMMING

Programming sets a series of parameters needed for the BTEL-GT to work, enabling it to adapt to the particular type of installation and use desired. The Installer menu can be accessed via the system's keypad

. A block diagram of the Installer menu is shown below.


Installer Menu
C
<Installer Code>
E
A for Parameters Management
B for Available Networks
C for Management Installer Code
F for Exit
A for Phone Book Management
B for Voice Messages Management
C for Management Options Calls
D for Advanced Management
F for Back
A for Listen
B for Record
F for Back
A for Management Input Polarity
B for Periodic Message
C for Language change
D for Date, Time Management
E for Output Management
F for Back
A for Write Phone Book
B for Read Phone Book
C for Delete
F for Back
A for Call Handling on Input
B for Management Repetitions of Voice Message
C for Management Call Cycle
D for Management Call All
E for Management Call Confirm Result
F for Back
A for Output Type Management
B for Output Polarity Management
C for Output Caller Recognition Enable
D for Confirm Output Activation Enable
F for Back

PROGRAMMING BY KEYPAD

To enable clear and quick programming, voice menu support is provided in various languages. When a language is selected, the programming voice menu in the selected language will be activated. The BTEL-GT can also be programmed in one language and then used in another. By pressing a combination of keys, you choose the parameter that you want to modify, after which you enter the desired value for that parameter. Press the F key to exit the current menu and go back (if no keys are pressed, the voice messages for each level of the menu will be repeated 3 times before returning to the previous level). Press the E key to accept the value. If you know the combination of keys that you want to press, you can speed up the programming by entering the sequence while the voice message is playing without having to wait for the entire message to be played.

Pressing the F key continuously for 3 seconds from any level of the menu allows you to return to standby mode. This feature is valid only while going through the menu or during programming, even if a voice message from the menu is being played. To return to the menu, you will need to re-enter the **Installer Code**.

If you make use of this function during programming, any parameters introduced will be ignored.

Activating an input while the Installer Menu is in operation does not produce voice calls or programmed text messages; these events are not even placed in the queue for execution after exiting from the Installer Menu.

Restore Factory Settings

To reset all the factory settings, remove all power supplies from the device, and then press the [1],[5],[9] and [F] keys simultaneously, and reconnect the power supply while keeping the keys pressed for approximately 3 seconds. During this process, the RED LED light will be on (see the section "***Status LEDs***").

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Access to Programming Mode

When turned on for the first time, or when restarting because factory settings were reset, the BTEL-GT asks which language is to be used, as described below: [A] = *Italian,* [B] = *English*, [C] = *French,* [D] = *Spanish* Press the key for the language to use and to confirm your choice, press the [E] key. In order to program parameters by keypad, an **Installer Code** must be entered via the BTEL-GT keypad as follows:

[C] <*Installer Code*> [E]

where ***<Installer Code>*** is a 5-digit number (the factory Installer Code is **11111**). If the code entered is correct, the **Installer Menu** will open.

IMPORTANT - Keeping the [F] key pressed for 3 seconds does not cancel the insertion of the Installer PIN; if you become aware that you are typing the wrong PIN, you need to wait a few seconds for the operation to be canceled automatically, or type the [E] key to finish your entry and then try again.

Access to programming mode is indicated by the RED LED (see the section "Status LEDs").

Parameters Management

In this section you can program the main settings for the BTEL-GT.

Phone Book Management

The dialler is provided from the factory without any programmed telephone numbers.

Write Phone Book

To program a phone number, type the following keypad sequence:

[A] [A] [A]<*Position no.*> <*Telephone number*>[E]

where <*Position no.*> is a number from [1] to [9] while <*Telephone number*> is a number of up to 16 digits. For example: [A] [A] [A] [1] [3] [4] [7] [0] [E] (the telephone number saved in the phone book under position no. 1 is 3470).

The dialler can memorize up to 9 telephone numbers: each number can consist of 16 digits at most.

Read Phone Book

To read the programmed phone number, type the following keypad sequence:

[A] [A] [B] <*Position no.*>

where <*Position no.*> is a number from [1] to [9].

If, for example, you want the third programmed telephone number displayed (position no. 3) type [A] [A] [B] [3]

Delete

To delete the programmed telephone number, type the following keypad sequence:

[A] [A] [C] <*Position no.*>

where <*Position no.*> is a number from [1] to [9].

If, for example, you want to delete the third programmed telephone number (position no. 3), type [A] [A] [C] [3]

Voice Messages Management

The BTEL-GT can record up to 8 voice messages lasting up to 8 seconds each; up to 3 messages can also be linked consecutively so as to create more complex messages.

Listen to Voice Messagge

To listen to a voice message, type the following keypad sequence:

[A] [B]<*Voice Message no.*>[A]

where <*Voice Message no.*> is a number from [1] to [8].

If you want to stop the message before it ends, press the [F] key.

Record Voice Message

To record a voice message, type the following keypad sequence:

[A] [B]<*Voice Message no.*>[B]

where <*Voice Message no.*> is a number from [1] to [8].

1. Keep the [0] key pressed and record the message. Release the [0] key to end recording (the message can last up to 8 seconds).

From this moment on, any previous recording made for this message number is ERASED.

2. If you wish, you can record other messages by repeating the procedure from step **1**.

To stop recording messages press the [F] key.

Management Options Calls

Settings for voice calls can be inputted in this section. The dialler is provided from the factory without any programmed telephone numbers.

Call Handling on Input

When the input is activated, the BTEL-GT can send voice messages to up to 9 telephone numbers. In this section, you can link the inputs to the phone numbers to call and the voice messages to send. Input no. 4 (L4) can be programmed to perform the "***Block Calls***" function (which blocks call cycles and the sending of text messages) instead of making calls triggered by input. To program, type the following keypad sequence:

[A] [C] [A]<*Input no.*><*Telephone Number*>[E]<*Voice Message no.*>[E]

where:

<*Input no.*> is the number of the input being programmed (from [1] to [4]);

<*Telephone Number*> is the position of the phone number to call (from [1] to [9]). Type one or more digits to specify the position(s) of the phone number(s). For example, if you want the dialer to call the 3rd, 4th, and 7th phone numbers, type [3] [4] [7] followed by the [E] key to confirm. To disable this feature, press the [0] key.

On input no. 4 (L4), by pressing the [B] key instead of typing the position of a phone number, you can enable call blocking. By pressing the [B] key you return to the previous menu directly without any confirmation messages.

<*Voice Message no.*> corresponds to the number of the voice messages to be assigned (from [1] to [8]). Up to 3 voice messages can be chosen (for example, messages [1] [5] [8]); any surplus or repeated numbers (for example [1] [1] [8]) will be ignored.

The messages chosen will be played in increasing numerical order: for example if messages 2, 3, and 1 are selected, they will play in the order 1 - 2 - 3.

- ***A <Voice message> will be sent only if all the messages in it are valid (i.e. not empty).***

- ***If the [F] key is pressed (see the paragraph "Programming by Keypad") during programming, the data entered will be disregarded and the previous data will be kept.***

Management Repetitions of Voice Messages

To program the number of times that voice messages will be repeated, type the following keypad sequence:

[A] [C] [B]<*Number of repetitions*>

where <*Number of repetitions*> corresponds to the number of repetitions requested (from [1] to [9]). The factory default setting for the number of repetitions is **1** (to send the voice message only once).

GB

Management Call Cycles

When an alarm event takes place, the phone numbers in the phone book associated with the triggered input are called (in the order that the phone numbers are saved in the phone book) and the programmed voice messages are played. By programming call cycles, you can keep trying to call numbers that for some reason have not answered their call (no answer, busy, or unreachable). If the call is successful, the dialer will not call the subsequent numbers, unless the "***Call All*** " option has been enabled. Program the number of times a call is attempted for each programmed telephone number by entering the following formula:

[A] [C] [C]<*Call Cycles*>

where <*Call Cycles*> corresponds to the number of times the call cycle must be repeated (from [1] to [9]). The factory default setting for call cycles is **1** (perform only one call cycle). The call cycles are enabled at increasing intervals: after 1, 2, 5, 10, 15, 20, 25, and 30 minutes.

[A] [C] [C]<*Call Cycles*>

- ***Input no. 1 (L1) takes priority over the other channels; if input no. 1 (L1) is activated, its call cycle is performed, even if at that moment the call cycle of a different input was under way.***

Management Call All

When an input is activated, a message is sent to all the telephone numbers linked with that input, continues calls even if one of the numbers answered.To program this feature, type the following keypad sequence:

[A] [C] [D] [A] (to **Enable**)

[A] [C] [D] [C] (to **Disable** - factory default setting)

Management Call Confirm Result

If this option is enabled, the BTEL-GT considers only voice calls that were confirmed by the user to be successful. If "***Call Confirm Result***": is enabled, the person answering will need to confirm receipt of the call after receiving the voice message and before the dialer ends the call by pressing the [*] or the [#] key on their own telephone (DTMF). If neither the [*] or the [#] key is pressed, the call will not be considered successful and the programmed call cycle will be executed (see the section "***Management Call Cycles***"). To program this feature, type the following keypad sequence:

[A] [C] [E] [A] (to **Enable**)

[A] [C] [E] [C] (to **Disable** - factory default setting)

- ***If the "Call Confirm Result" feature is enabled, pressing [*] ends the call immediately, while pressing [#] allows access to the voice menu.***

- ***In some cases the BTEL-GT may misinterpret the answer from answering machines, ringback tones, GSM operator courtesy messages, etc. Users are advised to enable the "Call Confirm Result" function.***

Advanced Management

This section mainly describes the procedures for programming the way the inputs and outputs work, as well as the dialler's advanced features.

Management Input Polarity

To program activation of the 4 inputs (for more information, see the section on "***Connecting the device->Activation Polarity***"), type the following keypad sequence:

A D A<*Input no.*><*Polarity*>

where <*Input no.*> is the number of the input being programmed (from 1 to 4), while <Mode> can be positive 1 (factory default setting) or negative 0. For example A D A 2 0 programs input no. 2 for negative polarity.

Periodic Message

In this menu one can program the periodic sending of voice message no. 8 to the number stored in the phone book as no. 1. For further information, consult the sections "***Parameters Management->Phone Book Management***" and "***Parameters Management->Voice Message Management***". To program this option, type the following keypad sequence:

A D B<*No. of days*>

where <*No. of days*> corresponds to the number of days until a message is sent (from 1 to 365); to disable transmission, press 0. The factory default setting is **0** (disabled).

Language change

In this menu you can change the language for the voice commands. To program this feature, type the following keyboard sequence:

A D C<*Language*>

where <*Language*> corresponds to : A=Italian B=English C=French D=Spanish.

Set Date and Time

To program this feature, type the following keyboard sequence:

A D D<*Hour*><*Minutes*><*Day*><*Month*><*Year*>

for each parameter, such as <*Hour*><*Minutes*><*Day*><*Month*><*Year*>, type two digits, for example, to set the date to the third day of the month, press 03 and for the year 2012 press 12.

After scheduling a new date, any regularly sent text messages in the system must be re-entered.

Output Management

The 4 Open Collector Outputs can be activated automatically (when pre-programmed events take place). This menu is used to program the Outputs, their polarity (N.C. or N.O.), their status as 'Monostable' or 'Bistable', activation via caller recognition, and confirmation of the outputs activation.

➢*Output Type Management*

Open Collector Outputs OC1, OC2, and OC3 can be set as **Bistable** (activation and deactivation take place through two different commands) or as **Monostable** (the output remains active for its **ON Time**, after which it returns to standby status; Output OC4 is preset as **Bistable** only. To program this feature, type the following keypad sequence:

A D E A<*Output no.*>B (to set to **Bistable**)

A D E A<*Output no.*><*ON Time*> (to set to **Monostable** - factory default setting)

where <*Output no.*> is the number of the output being programmed (from 1 to 3) while the <*ON Time*> is in seconds, from 1 to 99 (factory setting: 10 seconds).

☞ ***Monostable OC Outputs return to standby after the set** ON Time.*

➢*Output Polarity Management*

This section is used to program the standby polarity for Open Collector outputs OC1, OC2, and OC3 (Open Collector output OC4 is reserved and **Normally Closed**) as follows:

[A] [D] [E] [B]<*Output no.*>[1] (set as **Normally Open** - Factory default setting)

[A] [D] [E] [B]<*Output no.*>[2] (set as **Normally Closed**)

where <*Output no.*> is the number of the output being programmed (from [1] to [3]).

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➢*Output Caller Recognition Enable*

In this section you can link the activation of outputs with calls from certain telephone numbers in the phone book. To activate outputs with Caller ID, program the telephone number in the section "***Phone Book Management***" (see the ***Parameters Management*** section). The output is activated at "cost-free" as the Telephone Dialler, after identifying the caller, activates the output and the caller can end the call before the Dialler answers. To program this feature, type the following keypad sequence:

[A] [D] [E] [C]<*Output no.*><*Telephone Numbers*>[E]

where <*Output no.*> is the number of the output being programmed (from [1] to [3]) while <*Telephone Numbers*> are the positions of the telephone numbers saved in the phone book (1 to 3 positions can be specified).

☞ ***To cancel the setting for an output, do not input a telephone number.***

☞ ***Only outputs OC1, OC2, and OC3 can be activated by caller recognition.***

➢*Confirm Output Activation Enable*

This section is used to program the sending of a confirmation message when the output is activated. If this option is programmed, when an output is successfully activated, the user will receive confirmation. Confirmation takes the following form:

– a tone if output activation takes place through caller ID.
– a text message containing the same command received by the BTEL-GT if the output is activated by a text message.

To enable or disable, type the following keypad sequence:

[A] [D] [E] [D]<*Output no.*>[A] (to **Enable**)

[A] [D] [E] [D]<*Output no.*>[C] (to **Disable** - Factory default setting)

Available Networks

☞ ***For this test the SIM CARD should not be inserted in the SIM card slot.***

This section covers testing reception at the chosen location for installation, in order to identify the operator with the best coverage. To verify, press [B]. After waiting for approximately 15 seconds, a voice message will begin listing the codes of the operators with reception (see the table on page 4 or consult the table at the website http://en.wikipedia.org/wiki/Mobile Network Code) and after that the strength of the signal tested (**low**, **medium**, **good**, **excellent**).

☞ ***During this test, the 3 GREEN LED's will flash (see the section "Status LEDs").***

Management Installer Code

The factory default Installer PIN is **11111**. To change it, type the following keypad sequence:

[C]<*New PIN*><*Repeat New PIN*>

where <*New PIN*> is a number of 5 digits.

☞ ***The PIN's typed must be identical, and must be different from the user PIN, or you will be asked to retype the PIN.***

REMOTE PROGRAMMING BY TEXT MESSAGE

The dialler's features allow you to program one or more preset telephone numbers to which text messages will be sent when specific events take place:

- ❍ Any alarm signals on one or more of the 4 inputs.
- ❍ Low Battery Test. 2 text messages can be programmed, one for malfunctions and one for resetting.
- ❍ Periodic sending of a text message at programmed intervals.
- ❍ Sending a text message to check the remaining credit.

Input Activation

The BTEL-GT can send a text message to the numbers in the phone book when an event activating the inputs takes place. To do this, send a programming text message in the following format:

*#Installer PIN#**INA**#Input#Receiving Numbers#Message Text#*

where the following are enclosed by **#** signs:

- ☐ ***Installer PIN;*** a numeric code of 5 digits (from 00000 to 99999).The factory default installer PIN is **11111**.
- ☐ ***INA;*** the command text that programs the activation of inputs.
- ☐ ***Input;*** identifies the input (**IN1**, **IN2**, **IN3**, **IN4** which correspond to inputs L1, L2, L3, and L4).
- ☐ ***Recipient Number;*** position of the telephone number in the phone book (see "***Paramaters Management->Phone Book Management*** "). To send the text message to multiple numbers in the phone book, separate the numbers with a comma (for example “2,3,5” sends the text message to the telephone numbers stored under numbers 2, 3, and 5).
- ☐ ***Message Text ;*** type the text message to send (maximum 100 characters).To disable sending of the message not type the text.

Low Battery Power Message

When battery power is low, a text message can be sent to a preset telephone number. To do this, send a programming text message in the following format:

*#Installer PIN#**BAT**#Receiving Number#Low Battery Power Text#Battery Reset Text#Enable#*

where the following are enclosed by **#** signs:

- ☐ ***Installer PIN;*** a numeric code of 5 digits (from 00000 to 99999).The factory default installer PIN is **11111**.
- ☐ ***BAT;*** the program command to send a message informing that the battery power is low.
- ☐ ***Recipient Number:*** type the phone number of the recipient (not its position in the phone book). The telephone number may also be a number not found in the phone book.
- ☐ ***Low Battery Power Text ;*** type the text message informing the recipient that the *Battery Power* is *Low* (maximum 50 characters).
- ☐ ***Reset Text ;*** type the text message to be sent to notify that the *Battery Has Been Reset* (maximum 50 characters).
- ☐ ***Enable;*** type **1** to enable the sending of text messages or **0** to disable(in this case the fields ***Receiving Number***, ***Low Battery Power Text***, and ***Reset Text*** will be disregarded).

Periodic Message

Send a programming text message by using the following formula:

*#Installer PIN#**PER**#Receiving Number#Message Text#Interval#*

where the following are enclosed by **#** signs:

- ☐ ***Installer PIN;*** a numeric code of 5 digits (from 00000 to 99999). The factory default installer PIN is **11111**.
- ☐ ***PER;*** the program command to send periodic text messages.
- ☐ ***Recipient Number:*** type the phone number of the recipient (not its position in the phone book). The telephone number may also be a number not found in the phone book.
- ☐ ***Message Text ;*** type the text message to send (maximum 100 characters).
- ☐ ***Periodo;*** interval at which the message is sent, expressed in days, from 1 to 365 (type **0** to disable and disregard the **Message Text** field).

☝ ***The periodic message will be sent after the set number of days and always at the time of day at which it was programmed.***

Pay As You Go Balance

The pre-paid SIM CARD credit management service may be suspended at any time, at the discretion of each individual GSM network operator.

Operator	Example for Italian Operators
TIM	#11111#1#40916#PRE CRE SIN#1#
Vodafone	#11111#0#404##1#
Wind	#11111#2#*123###1#

You can check the credit remaining on the pre-paid SIM CARD. If this option is programmed, a text message containing the credit balance information provided by the operator is sent to a number in the phone book (the number must be in the phone book; see "***Paramaters Management->Phone Book Management***"). For this purpose, depending on the type of operator, you need to send a programming text message in the following format:

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#Installer PIN#Request Type#Request Number#Message Text#Interval#

where the following are enclosed by **#** signs:

- ***Installer PIN;*** a numeric code of 5 digits (from 00000 to 99999). The factory default Installer PIN is **11111**.
- ***Request Type;*** choose the type of request (0=Call, 1=Text message, 2=Network command, 3=Reset).
- ***Request Number ;*** the telephone number to call or send a text message to for credit information (for example 404=Vodafone, 40916=TIM).
- ***Message Text ;*** (for example PRE CRE SIN).
- ***Interval;*** type the Interval (from 1 to 3600 minutes) within which the credit balance information should be received from the operator in order to be forwarded to the number from which the request was received.

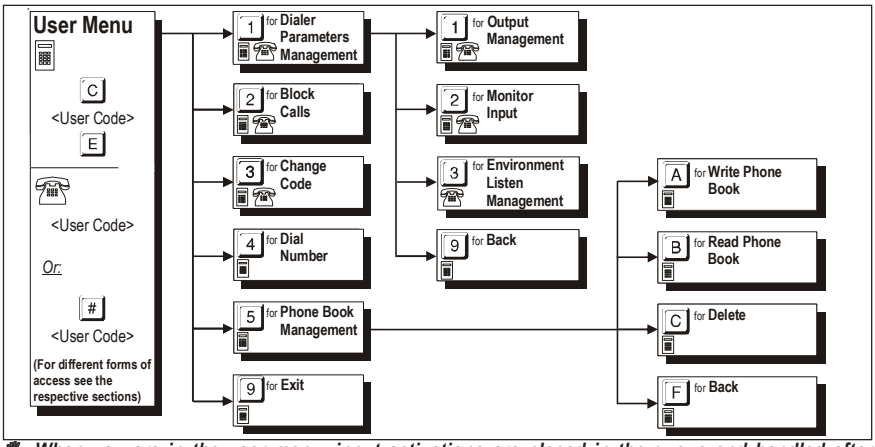
UPDATE THE FIRMWARE

To update the firmware, you will need to connect a PC-Link cable(see Figure 1) from the connector [17] on the BTEL-GT to one of the COM ports on the PC; the **BTEL-GT FW Update** application and the update files can be downloaded from the Bentel website. Make sure you insert the PC-Link cable connector in the right way. Once the connection is made, choose the COM port that is being used and the update file and click on the **Next** button: the application will show some information about the device that is connected. Click on **Next** to proceed with updating the firmware. Check the serial link and the serial port settings in case of communication problem, or use a different USB-RS232 adapter.

To install and run the "BTEL-GT FW Update" application, you will need to log on to the PC as the Administrator; we also recommend that any anti-virus programs and/or firewalls are disabled if problems arise while the application is being installed.

NOTE - The BTEL-GT is guaranteed to function only if the device has been installed and programmed by qualified personnel.

The User menu allows you to use the BTEL-GT. The User menu can be accessed either with the keypad or remotely. A block diagram of the User menu is shown below. The symbol ▪ indicates the menu items that can be accessed with the keypad; the phone symbol ☎ indicates the menu items that can be accessed remotely.



When you are in the user menu, input activations are placed in the queue and handled after you exit from the menu.

Programming by keypad ▪

The BTEL-GT parameters can be programmed locally with a keypad. For clear and quick programming, a voice menu provides support. When programming by keypad, select the parameter by pressing a series of keys, and then enter the value for that parameter. Press the 9 key (the F key in the phone book settings menu) to exit from the current menu and go back (if no keys are pressed, the voice messages for the menu level will be repeated 3 times before returning to the previous level). Press the E key to enter the data. If you know the keypad sequence to press, to speed up programming, you can type the sequence while the voice menu message is being played without having to wait for the whole message. Pressing the F key for 3 seconds from any menu level allows you to return to standby status. This feature is valid only when exploring the menus or during programming, even if a voice message from the menu is playing. To return to the menu, you will need to retype the **User PIN**.

If you use this command during programming, any data entered will be disregarded.

Access the **User Menu** key by entering the following formula: C <*User PIN*> E
where <***User PIN***> is a 5-digit number (the factory default user PIN is **00000**).

Access to programming is indicated by the RED LED turning on (see the section "Status LEDs").

IMPORTANT - Keeping the F key pressed for 3 seconds does not cancel entry of the User PIN. If you become aware that the PIN that you are typing is invalid, you need to wait a few seconds for the operation to be cancelled automatically, or press the E key to finish the entry and then try again.

CAUTION - If you enter the User PIN during a call to access the User Menu (yellow LED lit), the key inputs will not be confirmed by a tone but the code will still be accepted and you will access the menu at the end of the call. You cannot enter the User PIN at the beginning or end of a call (yellow LED switching).

Remote programming ☎

The user can perform some operations remotely with a PSTN or GSM phone (in this case, it needs to be a touch-tone telephone). Again, voice instructions are provided to assist with programming. For remote

operations, access the remote control menu in one of the following ways:

1) During a voice call from the BTEL-GT; press the [#] key while the message is playing and before the BTEL-GT ends the call. When the [#] key is recognized, the BTEL-GT will sound a double tone (beep-boop) confirming this; at this point, type in the ***<User PIN>***.

2) By making a call to the BTEL-GT from a telephone number stored in the phone book. After recognizing the telephone number, the BTEL-GT accepts the call and sounds a double tone (beep-boop) as confirmation; at this point, type in the ***<User PIN>***.

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The ***<User PIN>*** is a 5-digit number (the factory default user PIN is **00000**).
If no key is pressed within 10 seconds the call is ended. If the ***<User PIN>*** you typed in is correct, the BTEL-GT plays the voice message "CODE ACCEPTED" and after a 2-second pause it begins to play the voice menu; if the PIN is incorrect, the device will play the voice message "INCORRECT CODE" followed by a single tone (boop). The maximum number of tries allowed to enter the ***<User PIN>*** is 3, after which the BTEL-GT will end the call and resume its normal operations (for example, delivering a voice message to another number). If the ***<User PIN>*** typed is valid, the **User Menu** will open, from which you can perform the following operations: ***Output Management***, ***Monitor Input***, ***Environment Listen Management***, ***Block Calls***, and ***Change Code***.

Dialer Parameters Management ∎☎

This section is used to manage the main features needed for the BTEL-GT to function.

Output Management

Once you enter this section,the voice instructions start to list the programming for each output.To enter this programming mode,type the following keypad sequence: [1] [1],a voice message will inform the user of the status of the first output (O1).Press the [1] key to **enable** the output or [0] to **disable**;to exit, press [9].The operation is repeated for outputs O2 and O3.

Monitor Input

To check the active/inactive status of the four inputs (L1, L2, L3, and L4), type the following keypad sequence:

[1] [2]

Environment Listen Management ☎

This function can be activated in order to hear what is happening in the protected area through a sensitive microphone. To enable/disable the open microphone, type the following keypad sequence:

[1] [3] [1] (to **Enable**)

[1] [3] [0] (to **Disable**)

Block Calls ∎☎

Once you are aware of the situation that caused the alarm, or in case of a false alarm,you can block the dialer (and therefore any calls or text messages,even those in progress). To do this is sufficient,**after entering the user menu**,press [2].

CAUTION:

— To block calls, you can also use input no. 4 (L4) when suitably connected and programmed.

— If you enter the User PIN during a call to access the User Menu (yellow LED lit), the key inputs will not be confirmed by a tone but the code will still be accepted and you will access the menu at the end of the call. You cannot enter the User PIN at the beginning or end of a call (yellow LED switching).

— If "*Call Confirm Result****" is enabled, you need to press [*] or [#] on a PSTN or GSM telephone (after having received the voice message and before the dialer ends the call) to confirm reception of the voice message and not receive any more calls at this number (but without blocking the dialer).***

Change Code ∎☎

The factory default User PIN is **00000**. To change it, type the following keypad sequence:

[3] *<New PIN><Repeat New PIN>*

where *<New PIN>* is a number of 5 digits.

Dial Number ∎

To call a telephone number in live mode, type the following keypad sequence:

[4]<*Telephone Number*>[E]

for <*Telephone Number*>, type the number that you are calling (up to 16 digits).

Phone Book Management

ATTENTION - To exit from the Phone Book Management menu and go back, press the [F] key.

Write Phone Book

To enter a telephone number, type the following keypad sequence:

[5] [A]<*Position no.*> <*Telephone Number*>[E]

where <*Position no.*> is a number from [1] to [9], while <*Telephone number*> is a number of up to 16 digits. For example [5] [A] [1] [3] [4] [7] [0] [E] (the telephone number entered in the phone book in position no. 1 is 3470).

The dialer can store up to 9 telephone numbers, each up to 16 digits long.

Read Phone Book

To check the programmed phone number, type the following keypad sequence:

[5] [B] <*Position no.*>

where <*Position no.*> is a number from [1] to [9]. If, for example, you want the third programmed telephone number (position no. 3) displayed, type [5] [B] [3].

Delete

To delete a programmed phone number, type the following keypad sequence:

[5] [C] <*Position no.*>

where <*Position no.*> is a number from [1] to [9]. If, for example, if you want to delete the third programmed telephone number (position no. 3), type [5] [C] [3] .

Superkeys

The BTEL-GT has two SUPERKEYS (the [1] key and the [2] key), which, when pressed for at least 3 seconds, perform specific actions:

— When you press [1], a call is made to the telephone number stored at position 9 in the phone book and the speakerphone function is enabled. After 5 minutes and after that at 30-second intervals, a tone is sounded on the audio channel. To end the call, press or wait for the other party to hang up.

— When you press [2], a call is made to the telephone number stored at position 9 in the phone book and voice message no. 7 is played five times. If the call result is not successful (no answer, busy, or unreachable), the device automatically attempts to call again 5 times (after 1, 2, 5, and 10 minutes). Repeated call attempts can be ended by the Block Calls option (see the "***Block Calls***" section) or by activating Input no. 4 (L4).

The SUPERKEY [1] function cannot be enabled if other calls are in progress.

During calls made with Superkeys [1] and [2] the other party can access the User Menu remotely by pressing [#].

Remote Programming by text message

By sending specific text messages, you can manage some features of the BTEL-GT. For the features, see the paragraphs below.

Output Management

Open Collector outputs OC1, OC2, and OC3 can be set as **Bistable** (enabled and disabled with 2 different commands) or as **Monostable** (the output is active for its **ON Time**, after which it returns to standby). Output OC4 is set as **Bistable**.

If the output is enabled by sending a text message, *Confirm Output Activation Enable* ***(if programmed by the installer) will be sent by text message.***

Bistable Output

Open Collector outputs set as **Bistable** can be enabled or disabled by sending a text message with the following format (use capital letters):

#*User PIN***#***Output***#ON#** *(example: #**85649#OC1#ON#**)*

#User PIN**#***Output***#OFF#** *(example: #**85649#OC1#OFF#**)*

where the following are enclosed by # signs : ***User PIN*** is a numeric code of 5 digits (from 00000 to 99999); ***Output*** is the Open Collector Output (OC1, OC2, and OC3); ***ON*** enables the output; ***OFF*** disables the output.

- ***The factory default*** *User PIN* ***is "00000". To change it, see the Section "****User->Change Code****".***

GB

Monostable Output

The Open Collector Outputs set as **Monostable** can be enabled by sending a text message with the following format:

1. Send a text message using the following formula (use capital letters):

#*User PIN***#***Output***#ON#** *(example: #**85649#OC1#ON#**)*

where the following are enclosed by # signs : ***User PIN*** is a numeric code of 5 digits (from 00000 to 99999); ***Output*** is the Open Collector Output (OC1, OC2, and OC3); ***ON*** enables the output.

- ***OC Outputs set as Monostable return to standby status after their programmed*** *ON Time****.***
- ***The factory default*** *User PIN* ***is "00000". To change it, see the Section "****User->Change Code****".***

Pay As You Go

To check remaining credit, simply send a text message from a mobile phone to the BTEL-GT with the following format:

*#User PIN#***RCR#**

where the following are enclosed by # signs: ***User PIN*** (the factory default is **00000**) is a numeric code of 5 digits (from 00000 to 99999); ***RCR*** is the remaining credit request command.
The text message containing the credit balance information will be sent by the operator to the number from which the request was sent (the number has to be in the phone book).

- ***The pre-paid SIM CARD credit management service may be suspended at any time, at the discretion of each individual GSM network operator.***
- ***ATTENTION - The option of checking the credit balance is enabled only if the installer has programmed it.***

Expiry date of the SIM card

The BTEL-GT can notify the expiry date of the SIM card. To receive the notice, send a programming text message using the following formula:

*#User PIN#***SIM***#Message Text#Interval#*

where the following are enclosed by # signs :

- ☐ ***User PIN*** is a numeric code of 5 digits (from 00000 to 99999). The factory default User PIN is **00000**.
- ☐ ***SIM*** is the command to request the SIM card's expiry date.
- ☐ ***Message Text***: type the text message to be sent (maximum 100 character), for example "*SIM Card Expiry Update*".
- ☐ ***Interval***; time until the second message expressed in days, from 1 to 365 (type **0** to disable and disregard the ***Message Text*** field). Type two digits (for example, for a second message after 3 days, type 03).

The update will be sent to the same number from which the programming text message was sent. After the first update message and after the programmed interval, other updates will follow at 5-day intervals until the device is reprogrammed by a new text message.

Activate the Outputs via Caller Identification

Open Collector outputs set as **Bistable** (enabling and disabling take place through two different commands) or as **Monostable** (the output remains active for its **ON Time**, after which it returns to standby status) can be enabled by Caller ID: in this case, the Output is enabled with "zero cost", since the dialer, after recognizing the caller, rejects the call and enables the output.

- ***Only Outputs OC1, OC2, and OC3 can be enabled through Caller ID.***
- ***ATTENTION - The feature enabling outputs with Caller ID must have been enabled by the installer.***

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